(No Model.)

T. P. CHAPMAN.

ROLL PAPER HOLDER AND CUTTER.

No. 424,923. Patented Apr. 1, 1890.

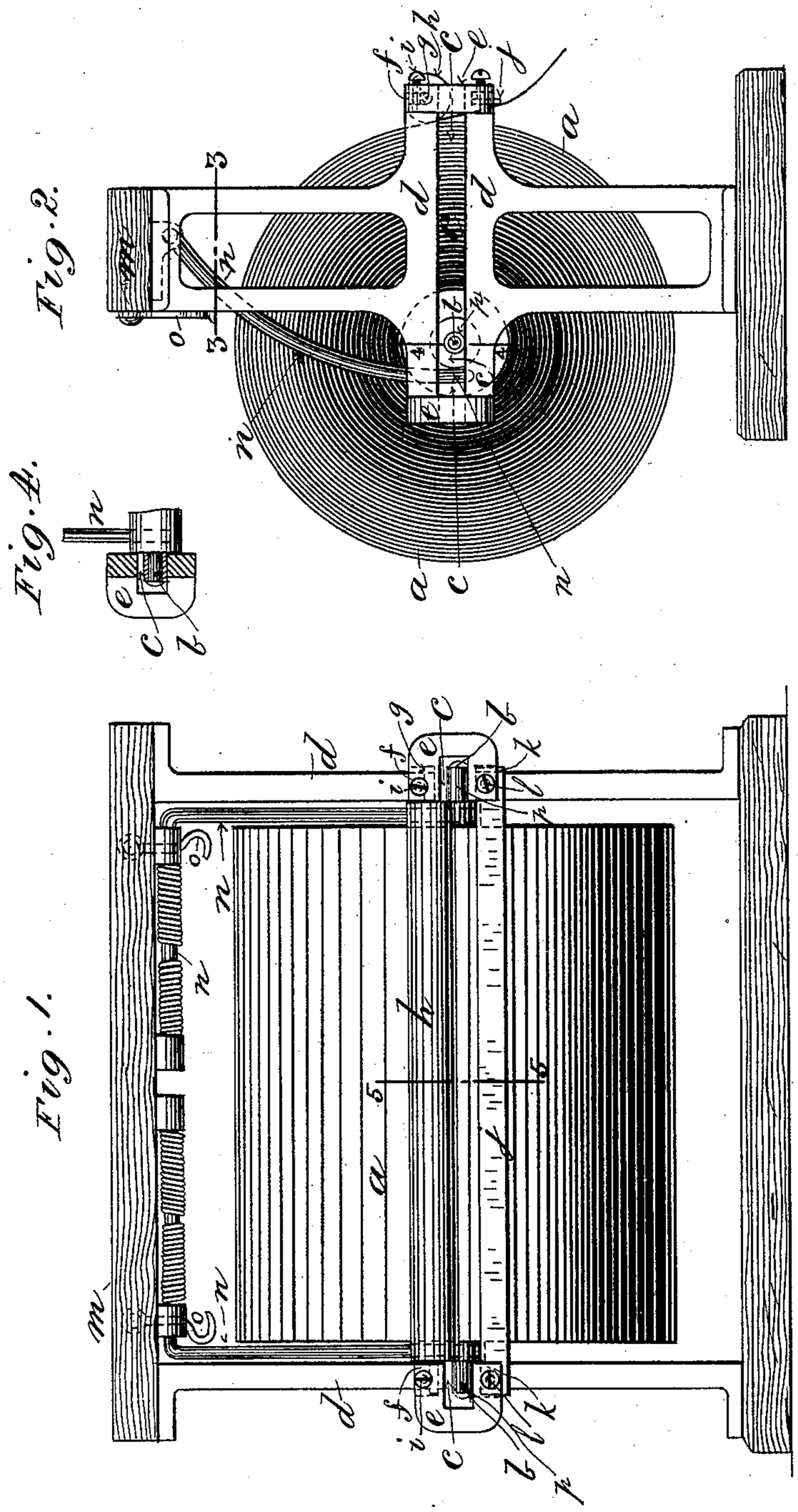

Fig. 1.

Fig. 2.

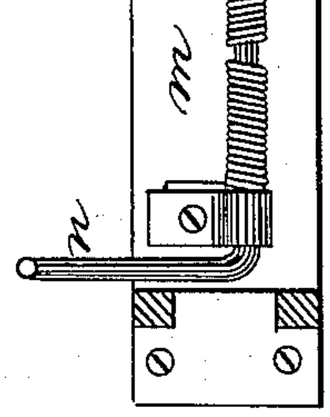

Fig. 3.

Fig. 4.

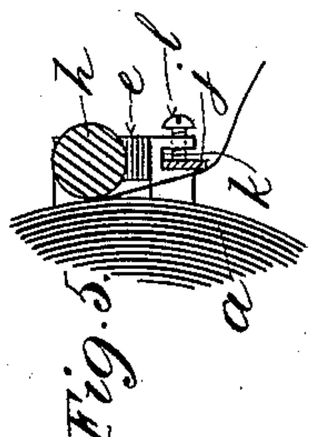

Fig. 5.

WITNESSES

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ROLL-PAPER HOLDER AND CUTTER.

SPECIFICATION forming part of Letters Patent No. 424,923, dated April 1, 1890.

Application filed March 29, 1888. Serial No. 268,773. (No model.)

To all whom it may concern:

Be it known that I, THOMAS P. CHAPMAN, a citizen of the United States, residing at the city of St. Louis, State of Missouri, have invented certain new and useful Improvements in Roll-Paper Holders and Cutters, of which the following is a full, clear, and exact description.

My invention relates to improvements in roll-paper holders and cutters; and has for its object to insure a constant and positive holding of the paper while being cut under varying diameters of the roll and to enable the latter and other parts to be readily removed from and replaced in the machine, as required.

I will now proceed to describe a construction which embodies my invention, and will thereafter particularly point out in the claims the novel features and combinations which I desire to cover hereby.

On the accompanying drawings, Figure 1 is a front elevation of my improved roll-paper holder and cutter; Fig. 2, a side elevation thereof; Fig. 3, an inverted sectional view on line 3 3 in Fig. 2; Fig. 4, a cross-section through part of one side of the frame-work, following line 4 4 in Fig. 2; and Fig. 5 a similar view through the holding roller and cutter in front of the paper-roll, following line 5 5 in Fig. 1, like letters of reference denoting like parts in all the figures.

a represents the paper-roll on its spindle *b*, the ends of which are mounted in horizontal slotted bearings *c*, formed through the upright sides *d* of the frame-work and open at their ends, where the upper and lower parts of the sides *d* are connected together by bridge-pieces *e*, which extend vertically across on the outside of and clear of the slots *c*, so that the roll-spindle *b* can be placed in the slots *c* from either end thereof. In the sides *d*, above the front ends of the slots *c*, are vertical slots *f* for receiving the ends of the spindle *g*, carrying a roller *h*, which is arranged horizontally between the sides *d*, and is normally in contact with the front portion of the periphery of the paper-roll *a* for the entire width of the latter. The spindle *g* is confined to its bearings *f* in the sides *d* and adjusted therein or released therefrom at pleasure by set-screws *i*. Beneath and parallel with the roller *h* in any convenient position relatively with the paper-roller *a* is located the knife or cutter *j*, the ends of which are inserted in vertical slots *k*, formed in the sides *d* of the frame-work beneath the front ends of the slots *c*, the knife *j* being adjustable and held in or removable from the slots *k* by set-screws *l*. To the under side of the top *m* of the frame-work, over the roll *a*, are fulcrumed spring bars or levers *n*, which extend downward and rearward and are of such length and shape that when a full paper-roll *a* is placed with its spindle *b* in the slots *c* and the front part of its periphery in contact with the front roller *h*, the free ends of the spring bars or levers *n*, being in a state of tension, will bear against the rear portion of the spindle *b* (or the cores thereon) of the roller *a*, so as to press the latter toward and against the holding-roller *h*. The paper on being unwound from the roll *a* to the extent required for use is held while being cut off by the knife *j* by the pressure of the roll *a* against the holding-roller *h*, and as the diameter of the roll *a* diminishes under repeated cuttings therefrom the spring bars or levers *n*, pressing against the roll-spindle *b*, constrain the latter to move forward along the slots *c*, and so constantly maintain the roll *a* against the holding-roller *h*. When the roll *a* is exhausted and it is desired to remove the spindle *b* from the machine through the rear ends of its slots *c*, the spring bars or levers *n* are moved backward clear of the slots *c* and hitched to the upper part *m* of the frame-work by hooks *o*, when the spindle *b* can be readily withdrawn from the slots *c* and replaced therein with another full roll of paper; or, if preferred, the spindle *b* may be taken out and replaced through the front ends of the slots *c* by loosening the set-screws *i l* and temporarily removing the holding-roller *h* and knife *j*.

The ends of the spindle *b*, as shown on the drawings, are provided with rings or ferrules *p* for bearing on the bottoms of the slots *c*; but these rings or ferrules *p* may be dispensed with, and are not necessary parts of my invention.

I do not herein claim, in a roll-paper holder and cutter, the combination of the spindle

carrying the paper-roll and mounted in slotted bearings, with a holding-roller arranged to be normally in contact with the front of the periphery of the paper-roll, knife, and spring bars or levers, substantially as shown.

I claim as my invention—

1. In a roll-paper holder and cutter, the combination of the spindle *b*, carrying the paper-roll *a*, and mounted in slotted bearings *c*, with knife *j*, detachably connected to upright sides *d* at front end of slotted bearings *c*, and spring bars or levers *n*, substantially as shown, and for the purpose described.

2. The combination of the spindle *b*, carrying the paper-roll *a*, and mounted in slotted bearings *c*, formed through the sides *d* of the frame-work and having open ends at front and rear, with connecting bridge-pieces *e*, substantially as shown, and for the purpose described.

3. The combination of the holding-roller *h*, having spindle *g*, mounted in vertical slots *f*, and knife or cutter *j*, mounted in slots *k*, with set-screws *i l*, respectively, and paper-roll *a*, substantially as and for the purpose described.

4. In a roll-paper holder and cutter, the combination of a bracket, a spindle carrying the paper-roll, a knife for cutting the paper, spring bars or levers for holding the roll of paper to the knife, and hooks for holding the spring bars or levers away from the paper or spindle, when desired, substantially as described.

In testimony whereof I affix my signature, in presence of two witnesses, this 26th day of March, 1888.

THOMAS P. CHAPMAN.

Witnesses:

S. L. SCHRADER,

J. L. HORNSBY.